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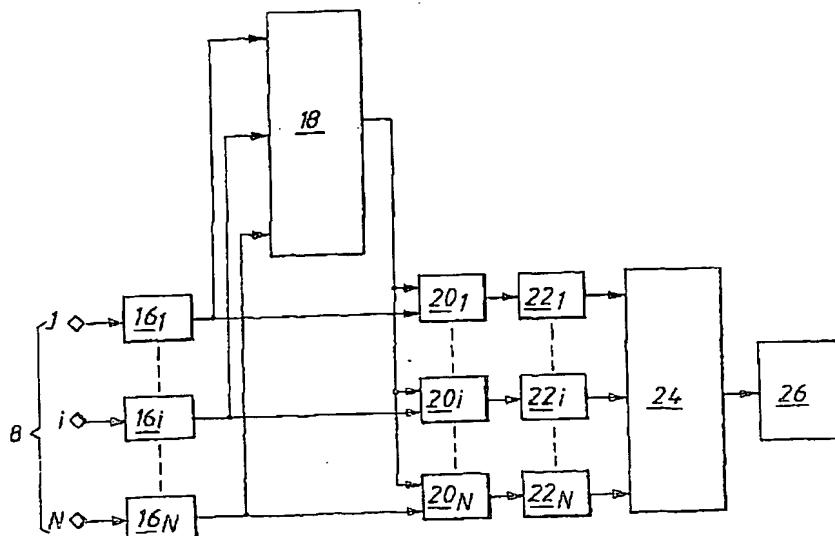
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MEDICAL SYSTEM WITH A MULTI-DOT ELECTRODE, WHERE THE SUB-SIGNALS ARE COMBINED INTO A SYNTHETIC REFERENCE



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(57) Abstract: Medical system for detecting heart events including an electrode lead provided with a multi-dot electrode unit that comprises at least three dot electrodes, said multi-dot electrode unit is adapted to be used for intra-corporal sensing of heart signals. The heart signals sensed by each of the dot electrodes are applied to a processing means where the signals are combined and a synthetic reference signal is determined. The differences between each dot electrode heart signal and the synthetic reference voltage are determined, and an indication signal is formed based upon said differences, wherein said indication signal is used to detect heart events.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/00403

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61B 5/042, A61N 1/05

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61B, A61N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, INSPEC, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	EP 1013303 A1 (IMPULSE DYNAMICS (ISRAEL) LTD.), 28 June 2000 (28.06.00), figure 1, abstract --	1-13
A	US 6064905 A (WILTON W. WEBSTER, JR. ET AL), 16 May 2000 (16.05.00), figure 1, abstract --	1-13

 Further documents are listed in the continuation of Box C. See patent family annex.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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29/04/03

International application No.

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